

Exhibit # 643



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MACKENZIE VALLEY PIPELINE INQUIRY

TESTIMONIAL QUALIFICATIONS

ARCTIC GAS PHASE IV

PANELS 1 TO 3

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Canadian Arctic Gas Study Limited
P. O. Box 139
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Toronto, Ontario
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areas of
concern.

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Mr. Boorkman is an attorney with a broad background in planning, criminal justice, education, and social, economic and environmental impact assessment. As both an attorney and a consultant, Mr. Boorkman has planned, evaluated and provided technical assistance to both public and private programs in a wide range of functional areas: criminal justice, health, housing, economic development, revenue sharing, community development, management analysis, new town development, transportation, and local government organization. He has served as the project director for major social, economic and environmental evaluation programs and has also directed both national and local training and technical assistance programs, including nationwide NILECJ training on the Des Moines Community-based Corrections Project.

1990

Project Director, LEAA Training and Technical Assistance Project. Responsible for directing a major technical assistance effort involving the replication of the Des Moines, Iowa, community corrections system in six selected communities throughout the U.S. Coordinated logistical planning with LEAA staff at the central, regional and local level. Part of the project responsibility is the design, development and implementation of a major training effort aimed at familiarizing state and local criminal justice system participants with community corrections generally and the Des Moines Program specifically.

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Project Director, Design and Conduct Child Abuse and Neglect Training, National Center on Child Abuse and Neglect, Office of Child Development, DHEW. Responsible for designing and conducting training programs in the Diagnosis and Treatment of Child Abuse and Neglect for 870 trainees from four disciplines - law, social work, health and education. Separate training programs conducted for non-Native (five-day conferences) and Native Americans (three-day conferences). Designed and coordinated logistical and reimbursement systems for all trainees.

Separate training programs for non-Native (five-day conferences) and Native Americans (three-day conferences). Designed and coordinated logistical and reimbursement systems for all trainees.

Project Administrator, Development of Child Abuse and Neglect Training Materials, National Center on Child Abuse and Neglect, Office of Child Development, DHEW. Responsible for developing curricula and training materials to be used by professionals in the fields of health and medicine, law, social work and education in the identification, reporting and referral of child abuse and neglect.

Project Director, Socioeconomic impact assessment of pipeline impact on the state of Alaska. Responsible for developing a comprehensive analysis of the impact of pipeline development on the entire state delivery system. Included an in-depth analysis and projection of future needs in the following



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areas: criminal justice, housing, social services, education, revenue, population, labor and employment, economic development, governance.

- 1974 to present Project Director, Alaska Manpower Study, U.S. Department of Labor, Region X. Responsible for identifying and analyzing all major forces of economic change in Alaska between 1974 and 1980 in terms of manpower impact, migration patterns, job mobility, unemployment fund, implications, etc.
- 1973 Project Director, Saks Fifth Avenue Environmental Impact Report. Developed an environmental evaluation report for the City of San Francisco Planning Department on the environmental impact of a new commercial development in downtown San Francisco.
- 1972 - 1973 Project Director, HUD Urban Technical Services Program. Responsible for the selection, training and placement of 200 urban specialists in small and medium sized local governments throughout the nation. Designed local government, revenue sharing and community development training programs which prepared urban specialists for assignments in participating local governments. Training subjects included: criminal justice planning and program development, categorical grant programs, revenue sharing program, community development strategies, housing, municipal fiscal planning and monitoring, etc.
- 1971 - 1973 Attorney and Consultant, City of St. Paul Island, Alaska. Responsible for development of community development planning, municipal ordinance development, organization of local adjudication system, and housing strategies.
- 1972 Consultant, Federal Highway Administration, U.S. Department of Transportation. Responsible for the development of a social feasibility model by which the potential social disruption of alternative highway corridors can be predicted and quantified by means of neighborhood impact profiles.
- 1972 Consultant, Fort Lincoln New Town Development, Washington, D.C. Responsible for evaluation of social service demands associated with the development of a new community. Areas of responsibility included public safety, housing, health, education, transportation recreation and culture, manpower training and development.
- 1971 - 1972 Evaluation Consultant, Model Cities Programs, Gary, Detroit, Buffalo. Responsible for evaluating Model City Program component projects in several cities. Focused on such functional areas as public safety, housing, manpower training, community development, fiscal management.

- 1971 Project Director and Consultant, Pico-Union Neighborhood Council. Assisted in the development of a delinquency prevention project for a low-income Mexican-American community in Los Angeles. The project focused on the involvement of local gang members to build vest-pocket parks in several areas of Los Angeles.
- 1971 Project Counsultant, Pechanga Band of Mission Indians, Riverside County, California. Responsible for development of economic development feasibility analysis of the potential uses of reservation land.
- 1971 Project Consultant, United Filipino Organization, San Francisco. Responsible for the development of housing development program, fiscal management assistance and community organization for a San Francisco Filipino organization.
- 1970 - 1971 Project Consultant, Relocation Training and Technical Assistance Project, U.S. Department of Housing and Urban Development. Responsible for providing relocation technical assistance to Model Cities Programs as part of a national technical assistance effort focusing on twenty-one cities. Provided technical assistance in Gary and Detroit.
- 1969 - 1970 Assistant to the Project Manager, Planning and Evaluation Training and Technical Assistance Contract, U.S. Department of Housing and Urban Development. Responsible for administration of a national technical assistance project which provided consultant assistance in continuing planning and evaluation activities to a total of twenty-one Model Cities Programs throughout the nation.
- 1969 Attorney and Organizer, Street Academy Program, New York City. Responsible for organization, training and legal representation of participants in Street Academy Program, a program which ran store-front schools and delinquency centers in Harlem for high school drop-outs and provided a wide range of direct as well as referral services.
- 1966 - 1967 Deputy to Legal Services Director, New York Regional Office, Office of Economic Opportunity. Responsible for developing, funding and monitoring legal services programs in the N.E. Region. Assisted in the development of neighborhood legal services offices for the representation of individuals and groups unable to retain private counsel because of poverty.

EDUCATION:

1968 LL.B., Yale Law School
1965 BA, Carleton College

PROFESSIONAL ORGANIZATIONS:

Member of California Bar
Member of New York Bar
Member of California Probation, Parole and Correctional
Association
Honorary Member of Arkansas Law Enforcement Officers
Association

WITNESS RESUME

NAME

Melvin E. Carlson

PRESENT POSITION

Director of Operations and Maintenance

EDUCATION

Graduated from the University of Alberta with the degree of Bachelor of Science in Electrical Engineering.

PROFESSIONAL AFFILIATIONS

Engineering Institute of Canada

Association of Professional Engineers of Ontario and Manitoba

PROFESSIONAL EXPERIENCE

1952 - 1953:

Perforating Guns of Canada Limited, Edmonton. Oil and gas well logging engineer. Duties and responsibilities included gamma ray and neutron logs of oil and gas wells and interpretation of same for the clients' engineer.

1953 - 1956:

Imperial Oil Limited, Edmonton and Toronto Office engineer. Duties and responsibilities included project expediting engineer in the purchasing department during Interprovincial Pipeline Company's expansion program.

Office engineer in Imperial Oil Limited's standards section in Toronto developing specifications for equipment and materials.

1956 - 1975:

TransCanada PipeLines, Toronto, Ontario.

1956 - 1958: Office engineer. Duties and responsibilities included miscellaneous design and estimating and responsibility for all construction material requisition preparation covering pipeline, compressor station and sales meter station projects.

1958 - 1960: Senior engineer. Duties and responsibilities: same as above plus construction project materials control. Supervision and administration for staff of 14.

1960 - 1964: Senior engineer, construction services. Duties and responsibilities: same as above plus: estimating; three TCPL survey crews; legal survey contracts; administration of all permits required to comply with NEB regulations; TCPL standards; field proof-testing of new

pipelines including the preparation of specifications and procedures for air and hydrostatic testing of pipeline to comply with NEB regulations; witnessing and accepting field tests and the preparation of documentation required for submission to the NEB for leave to open and operate. Supervision and administration for staff of 24.

1964 - 1968: Senior engineer, pipeline design. Duties and responsibilities: same as above plus: pipeline design and drafting; pipeline construction specifications; bid document preparation; pipeline construction supervision (1965-66 only); as-built drawing preparation; TCPL representative of pipeline design committee for GLGT project.

1968 - 1971: Supervising engineer, pipeline design. Duties and responsibilities: same as above excluding construction, plus: pipeline construction planning; aerial photography contracts; member CSA Committee; aluminum Piping Code; alternative member ASA B 31.8 Code for natural gas transmission; TCPL representative ASTM corporate membership; alternate member CSA Z-184 Code for natural gas transmission. Supervision and administration for staff of 35.

1971 - 1972: Assistant Chief Engineer, Pipeline Design and Operations. Duties and responsibilities: same as above plus: pipeline operations; gas measurement; corrosion. Supervision and administration for staff of 58.

1972 - 1974: Manager, Facilities Operation. Duties and responsibilities: compressor station and pipeline operations including managing of the technical support staff devoted entirely to the field operation of the TCPL system. These responsibilities included the following operations department sections: compressor, communications and controls, performance analysis, pipeline, gas measurement, corrosion, Victoria Square test facility.

1974 - 1975: Manager, Operations. Duties and responsibilities: same as above plus: all facets of construction supervision; commissioning and start-up of new facilities; field operation and maintenance of TCPL's transmission facilities. Supervision and administration for staff of approximately 900.

NAME: Frank Tallack Hollands

ADDRESS: Townhouse 54, 394 Woodsworth Road
Willowdale, Ontario

PRESENT POSITION:

General Manager, Employee Relations and
Public Affairs, Canadian Arctic Gas Pipeline
Limited, Toronto, Ontario

EDUCATION AND EXPERIENCE:

- B.A. University of Western Ontario
London, Ontario, 1949
- M.Sc. Industrial Relations, Cornell University,
Ithaca, N.Y. 1951
- Royal Canadian Airforce, pilot, 1942 - 1946
- 1951 - 1963 - Imperial Oil Limited
various professional and managerial positions
in employee relations functions with refining
division in Sarnia, Calgary and Toronto
- 1963 - 1975, Assistant Manager, Employee Relations
Dept. Imperial Oil Limited, Toronto
- 1975 to date - Present position

PROFESSIONAL AFFILIATION

- Canadian Gas Association
- American Gas Association
- Personnel Association of Toronto

WITNESS RESUME

NAME: Wayne B. Trusty.

PRESENT POSITION: President, Wayne B. Trusty & Associates Ltd.
presently under contract to Canadian Arctic Gas.

EDUCATION: B.A. Economics, University of Western Ontario,
1965.
M.A. Economics, University of Western Ontario,
1967.

PROFESSIONAL AFFILIATIONS:

PROFESSIONAL EXPERIENCE:

As a graduate student worked two summers for members of the Faculty, University of Western Ontario, as a research assistant. Worked on two projects: a study for the Economic Council of Canada dealing with measurement of effective rates of tariff protection for 137 Canadian manufacturing industries; and on a study of the effect of the Kennedy Round Tariff changes on the effective protection of 40 manufacturing industries.

1967 - 1968: Economist, Acres Research and Consulting Ltd. Projects included a feasibility and planning study for a proposed food distribution centre for Greater Miami, Florida; a long-term forecast of aviation activity at Calgary International Airport; the Acres portion of a feasibility analysis of a fixed crossing of the Northumberland Strait; preparation of a brief concerning the implications of changes in foreign exchange rates for international contracts of a large, multi-national corporation; a study of the effects of Kennedy Round Tariff changes on industrial purchasing.

1968 - 1969: Economist, Stanford Research Institute in California. Feasibility study of establishing a restaurant chain outlet in conjunction with the Bay Area Rapid Transit System. Also worked on the development of a model to determine modal split and associated transportation costs for the movement of specific commodities in any

PROFESSIONAL EXPERIENCE (CONT'D):

region. The model was part of a large regional impact model prepared for the United States Department of Agriculture.

Summer 1969:

Research, Pennsylvania Transportation and Traffic Safety Centre at the University of Pennsylvania. Projects included a study of the requirement and design for a transportation system to serve a three-county rural area in Pennsylvania. Also worked on the marketing plan for a rail corridor from Philadelphia to Harrisburg, Pa., with particular emphasis on the applicability of work being done by the Office of High Speed Ground Transportation in the Northeast Corridor.

1969 - 1971:

Senior Economist with Hedlin, Menzies & Associates Ltd., a division of Acres Research and Consulting Ltd. Projects included: A study of the world-wide market for a particular type of pollution control system, with prime responsibility for assessing the significance of the European market and of licenses held by a European firm. A study to determine the market value of lands and buildings owned in various parts of the country by a large national corporation. Carried out an internal review of recent reports dealing with the future of the St. Laurence Seaway and the question of user charges. A pilot study designed to explore a different approach to regional industrial development. A study for a major shipping company which included commodity flow forecasts and an analysis of the company's internal operations, profitability and investment potentials. Project leader on the Hedlin, Menzies portion of Phase 1 of a containerization study for the Canadian Transport Commission. Home office economist on the management support staff for a large general consultancy contract with the Water and Power Authority of East Pakistan. Project leader on a study of the impact of toll increases in conjunction with the introduction of a fixed crossing of the Northumberland Strait.

PROFESSIONAL EXPERIENCE (CONT'D):

1971 - 1972:

Senior Consultant, Hopkins, Hedlin Ltd., Economics Communications. Project leader on an extensive study of communications requirements related to Federal Government research efforts and potential programs concerning a major sector of the economy of Western Canada. Prepared a brief on current legislation, Government attitudes, and probable Government actions regarding foreign ownership in Canada, with particular emphasis on the financial sector.

1972:

Formed Wayne B. Trusty and Associates Ltd. Projects included: work with the Ontario Government as a consultant looking at the broad mix of objectives of Ontario and the nation and all the various policies that are brought to bear on those objectives and how they inter-relate, how they conflict and how they are complementary. Consultant with Imperial Oil advising them on their communications, and devising a methodology by which they could attempt to make somewhat more specific their whole information evaluation process.

October, 1973,
to the present:

Economic advisor to Canadian Arctic Gas by way of contract.

PUBLICATIONS:

See Appendix "A" attached.

AREA OF RESPONSIBILITY:

To advise and make inputs to all aspects of Arctic Gas work related to economics, regional analysis, to the extent that there is an overlap with certain engineering functions.

APPENDIX "A" TO THE WITNESS RESUME OF WAYNE B. TRUSTY

"The Canadian Experience with Flexible Exchange Rates" The Business Quarterly, London, Ontario (December, 1967).

DAVID M. WEINSTEIN

URSA SENIOR STAFF

Mr. Weinstein, an attorney and Woodrow Wilson Fellow in economics, has professional experience in both areas. Before coming to URSA, he has served as an economist for Ralph Nader and the Seattle First National Bank. More recently, he was a practicing attorney. For URSA, Mr. Weinstein has analyzed the Alaska economy as a means to evaluate existing econometric models of the state's economy. He has also prepared written testimony for the Federal Power Commission on the economic impacts in Alaska of competing gas pipeline proposals.

EXPERIENCE:

1974-present URBAN AND RURAL SYSTEMS ASSOCIATES (URSA), San Francisco.

Senior Staff. Analyzed and defined the economic model of the state of Alaska which URSA developed for the Alaska Arctic Gas Pipeline Company (AAGPC). Also critiqued and acquired full working knowledge of all other econometric models that were constructed in order to predict the consequences of the Alyeska or AAGPC pipelines upon the economy of Alaska.

Senior Staff. Region X DOL Alaska Manpower Study; evaluated existing regression model of Alaska economy and prepared forecast of future impact of selected economic and social events upon the state's manpower needs and economic well-being.

Senior Staff. LEAA/NILECO Exemplary Projects Contract; assisted in the development of the Des Moines Community Corrections Training Manual. His primary responsibilities were to prepare a statement demonstrating the scope and variety of corrections programs in the U.S. and to compile a bibliography of relevant publications.

Manager, URSA Seattle Branch Office.

1973-1974 SULLIVAN, JONES & ARCHER, San Francisco.

This law firm specialized in business litigation, especially in antitrust and securities law. Mr. Weinstein wrote briefs and memoranda in cases as disparate as those dealing with the NCAA's "1.6" Rule, with alleged monopolization in the paper industry, and with alleged price discrimination in the bread industry.

1972-1973

EQUAL EMPLOYMENT OPPORTUNITY COMMISSION (EEOC) LITIGATION CENTER, San Francisco.

The San Francisco Litigation Center is in charge of enforcing Title VII of the 1964 Civil Rights Act for the Western region of the United States. Mr. Weinstein conducted extensive investigations and informal pre-trial discovery of firms engaged in banking and retail merchandising.

1971

MCDONALD, HOAGUE & BAYLESS, Seattle.

Drafted and argued in the state superior court a motion for a change of venue in the Joseph Alioto fee-splitting case.

1970-1971

YALE UNIVERSITY.

Taught criminal law in an experimental inner-city high school in New Haven, Connecticut.

1970

CENTER FOR THE STUDY OF RESPONSIVE LAW (Ralph Nader), Washington, D.C.

Mr. Weinstein was part of a two-man team which investigated the Department of Transportation and which analyzed the consequences of the newly-passed National Environmental Policy Act and the environmental impact statements required by that Act. Mr. Weinstein further made an extensive economic investigation, including a cost-benefit analysis, of the federal highway program and the federal highway trust fund.

1968-1968

SEATTLE FIRST NATIONAL BANK, Seattle.

Worked as an economist in the economic research department of the bank; used regression and other statistical and econometric techniques to project bank demand deposits and loans and to estimate future levels of state income, population and employment.

EDUCATION:

1972

J.D., Yale University.

1970

M.A. Economics, Stanford University, Woodrow Wilson Fellow.

1968

B.A. Economics, Amherst College, Summa Cum Laude.

Feb. 14, 1975.

WITNESS RESUME

NAME: Guy Leslie Williams.

PRESENT POSITION: Employed by Williams Brothers Canada Limited, presently seconded to Northern Engineering Services Company Limited as Director of Field Services.

EDUCATION: B.Sc. Civil Engineering, University of Saskatchewan, 1948.

PROFESSIONAL AFFILIATIONS: Association of Professional Engineers, Geologists and Geophysicists of Alberta; Association of Professional Engineers of the Province of British Columbia; The Association of Professional Engineers of the Province of Saskatchewan; and the Engineering Institute of Canada.

PROFESSIONAL EXPERIENCE:

1948 - 1957: Engineering Department, Canadian Pacific Railway working with the construction and maintenance of track, buildings, bridges, fuels and water facilities. Held the position of Assistant Division Engineer in 1957.

1957 - 1963: Project Engineer, Williams Brothers Canada Limited, working in the field and cost estimating sections of both the construction and engineering managements divisions. The projects involved oil and gas gathering systems in Alberta and British Columbia.

1963 - 1970: Project Manager, Williams Brothers Canada Limited, with projects that included a 570 mile products pipeline from Empress, Alberta, to Winnipeg, Manitoba, for Petroleum Transmission Co.; a crude oil gathering and transmission system from Lloydminster to Hardisty, Alberta, for Husky Oil Co.; and feasibility studies for potash and coal slurry pipelines from Saskatchewan and Alberta to Vancouver, British Columbia.

PROFESSIONAL EXPERIENCE (CONT'D):

1970 - 1972: Vice-President, Williams Brothers Canada Limited, engaged on the northern gas pipeline study for the Northwest Project Study Group.

1972 - to present: Assigned to Northern Engineering Services Company Limited as Director of Field Services.

AREA OF RESPONSIBILITY: Supervised construction of the Sans Sault Test Facility, route location, terrain evaluation and construction planning.

